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(54) **Cosmetic and tissue cleansing and moisturizing composition**

(57) A cosmetic and tissue cleansing composition including mineral salts, preferably Dead Sea mineral salts as an effective agent to minimize the effect of itching on the skin from a condition caused by psoriasis. In another form, the composition can be used as an exfo-

liating or scrubbing composition. The composition being formulated with a non-oily base which is water soluble such that the granules which are mineral salts act as exfoliating or scrubbing agents. The composition can also be formed for dental or mouth use.

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Description

BACKGROUND OF THE INVENTION

5 [0001] This application is directed to an improved cosmetic and cleansing composition.

[0002] Modern environmental conditions, such as heating and air conditioning, dryness, exposure to the sun, and environment pollution exert severe stress on the skin and accelerate the skin deterioration. This can result in wrinkles, loss of firmness and elasticity, discoloration, dryness and other cosmetically undesirable effects. Additionally, medical conditions, such as psoriasis, can cause skin conditions which are exhibited as skin flaking and loss of skin tissue.

10 [0003] Although a number of cosmetic, cleansing and moisturizing compositions for use on the skin already exist, there is a need to provide a new cosmetic, cleansing and moisturizing composition which can provide advantages over those which are currently known. It is also desirable to have compositions for use not only on humans but also on animals, as well as compositions that can be used within the mouth as a cleanser of the mouth or the teeth.

[0004] Different compositions are known using mineral salts from the Dead Sea, for instance, as bath salts.

15 [0005] It is not, however, known to use such minerals for other cosmetic or cleansing purposes and for purposes of use in the mouth.

[0006] Compositions using mineral salts with an oily based carrier are known. They however have disadvantages when used as a scrub or exfoliating cleansing composition. Such scrub and exfoliating compositions would be particularly useful on human skin and tissue.

20 [0007] A need exists for a new cosmetic and tissue cleansing and moisturizing composition.

SUMMARY OF THE INVENTION

25 [0008] By this invention there is provided a cosmetic, cleansing and mouth formulations for use with human skin and on animal skin or tissue, which obviate the effect of modern environmental conditions on the human and animal body.

[0009] Some of these compositions include formulations suitable for entry into the mouth either as a dental toothpaste, cream or as a mouthwash.

[0010] An active ingredient of these compositions is a mineral salt, preferably Dead Sea salts.

30 [0011] The composition incorporates a new combination of ingredients particularly designed to provide protection from environmental pollution and to provide moisturization of the skin. The cosmetic composition provides for tissue repair and protection for conditions caused by psoriasis.

[0012] The cosmetic composition simultaneously provides moisturization and control of oil when necessary.

[0013] In general, the composition according to one other aspect the present invention comprises: water and, emulsified and dispersed in the water, minerals salts, preferably Dead Sea salts.

35 [0014] One composition of the invention includes the use of salts, preferably mineral salts and more preferably, Dead Sea mineral salt in conjunction with other components, such as a lotion, to create a cleansing composition for use as an exfoliating and scrubbing composition for the body or face tissue of a human or animal.

[0015] The composition is prepared with a water soluble and moisturizing lotion while retaining the effective action of the Dead Sea mineral salt, which is preferably granules, such granules normally being water soluble.

40 [0016] In a preferred form of the invention, the composition include a moisturizing and/or non-oily base element for retaining the Dead Sea mineral salt granules in their granule form until used so that the mixture will act as an exfoliating scrub.

[0017] The non-oily base is water soluble and thereby permits easy removal without leaving an oily film on the skin. The effect however is to provide for moisturizing the skin.

45 [0018] The preferred composition includes a lotion which includes D.I. water, Methylparaben, Propylene glycol, Glycerin 96%, Steareth-2 (Lipocol S-2), Steareth-20 (Lipocol S-20), Cetyl Alcohol (Lipocol C), Stearyl Alcohol (Lipocol S), Safflower oil, Isopropyl myristate (Liponate IPM), DC 200 Fluid 100 cst., Propylparaben, Germall II and Fragrance at a low ratio, approximately 1:10, or one part lotion to about ten parts, there is added Dead Sea mineral salts. A minimum active amount, preferably the least amount of water is used in the formulation of the composition so that as part of the lotion the salt granules are not inclined break down.

50 [0019] Other scrubbing agents such as silica or pumice can selectively be the effective scrubbing agent or can be added to the mineral salt composition. The product can contain other scrubbing agents such as loofah or nut shells. An antibacteria agent can also be incorporated in the formula.

55 DESCRIPTION

[0020] These and other features, aspects, and advantages of the present invention will become better understood with reference to the following description, appended claims.

[0021] The ingredients of a preferred embodiment of the present invention, their proportions, and the sequences of which they are a part for the purposes of mixing are described.

[0022] A new combination of ingredients results in a skin composition that provides protection against many types of skin damage, particularly itching and psoriasis, as well as other types of skin damage that can occur. Such other conditions can be flaking, redness, eczema, rashes or dry skin. Moreover, the composition is useful for cleansing the skin tissue, hands and the body and can be an effective scrubbing and exfoliating composition.

[0023] The composition of the present invention comprises base in which cosmetic components are mineral salts, preferably Dead Sea mineral salts. Another additive which is useful against itching is eugenol extract, namely an extract of cloves, and this can be added to the composition as required.

[0024] Typically, the composition of the present invention further comprises ancillary components such as: (1) a lipid-soluble component; (2) an emulsifier component; (3) an antioxidant component; (4) a preservative component; (5) a solvent component; (6) a thickener component; (7) a hydrophilic component; and (8) fragrance.

[0025] The ingredients included within these components are described in detail below.

[0026] The ingredients are dispersed in an emulsified composition by the method of preparation described below.

"Dispersed" refers to any process by which the ingredients are uniformly distributed in the emulsified base, and includes dissolving, emulsifying, and forming a colloidal suspension.

I. NATURE AND PROPORTION OF INGREDIENTS OF THE SKIN CREAM COMPOSITION

A. The Cosmetic Components

[0027] Each of the cosmetic components, particularly the Dead Sea mineral salts, contributes to the improved properties of the cosmetic and cleansing composition of the present invention is present in a quantity sufficient to increase the smoothness, decrease the lumpiness, or decrease the itchiness, or edema of skin to which the composition is applied. Moreover, it reduces itching and repairs skin, and act as a cleansing agent.

[0028] An essential ingredient of the invention are mineral salts such as Dead Sea salts. These Dead Sea salts are salts obtained from the region of Israel or Jordan known as the Dead Sea, and which contain at least the following active ingredients:

Magnesium Chloride (MgCl ₂)	31.0 - 35.0%
Potassium Chloride (KCl)	24.0 - 26.0%
Sodium Chloride (NaCl)	4.0 - 8.0%
Calcium Chloride (CaCl ₂)	0.4 - 0.6%
Magnesium Bromide (MgBr ₂)	0.3 - 0.6%
Sulphates (SO ₄ ⁻⁻)	0.05 - 0.2%
Insolubles	0.05 - 0.3%
Water of Crystallization	34.0 - 38.0%

B. The Ancillary Components

[0029] The composition of the present invention can further comprise a lipid-soluble component to provide added smoothness. The lipid-soluble component can comprise at least one ingredient selected from the group consisting of: (1) dimethicone; (2) bisabolol; (3) polyoxyethylene fatty acid esters; (4) cetyl alcohol; (5) a glyceryl triester of a medium-chain carboxylic acid selected from the group consisting of tricaproin, tricaprylin, tricaprin, and mixtures thereof; (6) white petrolatum; and (7) mineral oil.

[0030] The ancillary components, whose use is optional but preferable, impart additional desirable properties to the skin cream composition of the present invention. These components can include: (1) a lipid-soluble component; (2) an emulsifier component; (3) an antioxidant component; (4) a preservative component; (5) a solvent component; (6) a thickener component; (7) a hydrophilic component; and (8) fragrance. Preferably, the composition of the present invention comprises all the ancillary components as indicated below.

[0031] As comprised in a skin cream, the composition with the solvent provides for greater uniformity and ease of preparation. The solvent component can include one or two ingredients.

[0032] The thickener component improves the flow and rheological properties of the cosmetic composition. It permits the composition to be retained in a formulated state when applied to the skin. One or more ingredients can comprise the thickener component.

[0033] The hydrophilic component can comprise one or multiple ingredients.

[0034] If necessary, a preservative component can be used to retard microbial and mold growth in the composition.

The preservative component can also act as a stabilizer.

[0035] The lipid-soluble component can also comprise one or multiple ingredients, and these can be varied depending upon the cosmetic composition as to be used. For instance, the composition can be formulated for normal skin, dry skin, or oily skin, and different lipid components can be used under those conditions.

1. The Liquid-Soluble Component

[0036] The cosmetic composition can comprise the additional ancillary ingredients whose use is optional but preferable. These ancillary ingredients can include a solvent component, a preservative component, a thickener component, a hydrophilic component, a lipid-soluble component and a pigment. As necessary or suitable, a fragrant component can also be added. Various combinations of these ingredients can be used as the solvent, lipid, thickener or hydrophilic component.

[0037] The glyceryl triester of the medium-chain carboxylic acid can be tricaprylin. The lipid-soluble component comprises dimethicone, bisabolol, polyoxyethylene fatty acid esters, cetyl alcohol, tricaprylin, white petrolatum, and mineral oil.

[0038] The dimethicone can comprise about 0.75% of the composition, the bisabolol comprises about 0.1% of the composition, the polyoxyethylene fatty acid esters comprise about 2.5% of the composition, the cetyl alcohol comprises about 4% of the composition, the tricaprylin comprises about 7.5% of the composition, the white petrolatum comprises about 3% of the composition, and the mineral oil comprises about 6.0% of the composition.

2. The Emulsifier Component

[0039] The skin cream composition of the present invention can further comprise an emulsifier component. Emulsifiers serve two functions. They act like a solubilizing agent to combine the water-soluble and non-water-soluble phases together; that is, to form a stable bridge between the waters and the oils of the ingredients. The emulsifiers also serve as emollients, providing a pleasant, esthetically appropriate tactile feeling when the emulsified composition is applied to the skin. The emulsifier component is present in a quantity sufficient to combine water-soluble and non-water-soluble phases of the composition.

[0040] The emulsifier component can comprise at least one of a mixture of mono- and distearate esters of polyoxyethylene and free polyethylene oxide, partial esters of lauric, palmitic, stearic, and oleic acids and hexitol anhydrides, and 120-mole ethoxylated jojoba oil. The emulsifier component can comprise a mixture of mono- and distearate esters of polyoxyethylene and free polyethylene oxide, partial esters of lauric, palmitic, stearic, and oleic acids and hexitol anhydrides and 120-mole ethoxylated jojoba oil. Preferably, the mixture of mono- and distearate esters of polyoxyethylene and free polyethylene oxide comprises about 1.25% of the composition, the partial esters of lauric, palmitic, stearic, and oleic acids and hexitol anhydrides comprise about 0.13% of the composition, and the 120-mole ethoxylated jojoba oil comprises about 1.0% of the composition.

3. The Antioxidant Component

[0041] The composition according to the present invention can further comprise an antioxidant component. The antioxidant component prevents oxidation of the ingredients of the composition. The antioxidant component can be a mixture of 70% propylene glycol, 20% propyl gallate, and 10% citric acid. The antioxidant component comprises about 0.0011% of the composition.

4. The Preservative Component

[0042] The skin cream composition according to the present invention can further comprise a preservative component. The preservative component is used to prevent the growth of microbes in the emulsified skin cream composition, which is typically manufactured under clean, but non-sterile conditions. The preservative component can comprise at least one of imidazolyl urea and a complex of propylene glycol, phenoxyethanol, chlorphenesin and methylparaben.

[0043] The preservative component can comprises both imidazolyl urea and a complex of propylene glycol, phenoxyethanol, chlorphenesin and methylparaben, the imidazolyl urea comprises about 0.0011% of the composition, and the complex of propylene glycol, phenoxyethanol, chlorphenesin and methylparaben comprises about 2.5% of the composition.

[0044] In the complex of propylene glycol, phenoxyethanol, chlorphenesin and methylparaben, the propylene glycol comprises from about 30% to about 45% of the complex, the phenoxyethanol comprises from about 22% to about 37% of the complex, the chlorphenesin comprises from about 11% to about 22% of the complex, and the methylparaben comprises from about 11% to about 22% of the complex.

5. The Solvent Component

[0045] The composition according to the present invention can further comprise a solvent component. The use of a solvent component allows greater uniformity and ease of preparation. The solvent component can include at least one ingredient selected from the group consisting of ethylene glycol, propylene glycol, and 1,3-butylene glycol. The solvent component can comprise 1,3-butylene glycol and the solvent component comprises about 4.0% of the composition.

6. The Thickener Component

[0046] The composition according to the present invention can comprise a thickener component in a quantity sufficient to retain the composition when it is applied to the skin of a wearer. The thickener component can comprise at least one ingredient selected from the group consisting of alginate derivatives and preneutralized carbomer 430. The skin cream composition can comprise both alginate derivatives and preneutralized carbomer 430. The alginate derivative can comprise about 0.2% of the composition, and the preneutralized carbomer 430 can be about 0.5% of the composition.

7. The Hydrophilic Component

[0047] A composition according to the present invention can further comprise a hydrophilic component. The hydrophilic component can comprise a polar complex consisting essentially of mannitol, arginine, serine, pyrrolidone carboxylate, sucrose, citrulline, glycogen, histidine, alanine, threonine, glutamic acid, and lysine. The polar complex can comprise about 1.0% of the composition.

8. Fragrance

[0048] The composition according to the present invention can further comprise fragrance. The use of fragrance is well known in the cosmetic art, and need not be described further. The fragrance can comprise about 0.45% of the composition, although this can vary depending upon the fragrance used.

Compositions according to the present invention can further comprise other components used in the cosmetic art, such as pigments and other conventional excipients. The use of such ingredients is well known in the cosmetic and cleansing art and need not be described further here. The pigment component gives the cosmetic composition an aesthetically desirable appearance and different pigments can be used as variables in relation to the skin tone of the intended user.

[0049] Other components of the composition which permit for its application to the skin include propylene glycol, and effective amounts of aloe vera juice, sunflower oil, kessco OP, liponate, other hydrogenated vegetable oil, lipo GMS, stearic acid, and lipomulse.

[0050] As necessary, the product could also include, when intended for application to the skin, a suitable sunscreen composition. In different forms, although aloe vera juice is considered, other extracts are possible. This could, for instance, be extracts from other fruits such as balsam of apricot.

An example of the cosmetic composition is set out as follows, together with the relative percentages of content, and also an indication of the relative phase of those products. The relationship of the phase is also set out in regard to the method of formulating the composition:

SAMPLE COMPOSITION FOR COSMETIC CLEANSING AND MOISTURIZING PRODUCT		
PHASE	%	MATERIAL
1	64.9500	DEIONIZED WATER
	1.000	ALOE VERA JUICE
	0.2000	METHYLPARABEN
2	3.0000	PROPYLENE GLYCOL
	0.1000	KELTROLT
3	1.0000	SUNFLOWER OIL
	2.0000	KESSCO OP
	2.0000	LIPONATE GC
	1.0000	THODORSIL 47V 350/SF 96-350
	2.0000	HYDROGENATED VEGETABLE OIL
	3.5000	LIPOM GMS 470 - WITCONOL 2407

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(continued)

SAMPLE COMPOSITION FOR COSMETIC CLEANSING AND MOISTURIZING PRODUCT		
PHASE	%	MATERIAL
4	2.0000	STEARIC ACID
	2.0000	LIPOMULSE 165/ARLACEL 165V
	1.0000	LIPOCOL C/ALFOL 16
	1.0000	LIPOWAX D
	0.1000	PROPYLPARABEN
	0.1000	VITAMIN E ACETATE
	0.5000	EUGENOL EXTRA USP
	0.4000	MACKSTAT DM
	0.0500	WHITE DIAMOND B/M63149
	0.1000	COVIOX T70
5	10.0000	DEIONIZED WATER
	5.0000	DEAD SEA SALT
TOTAL	103.0000	

[0051] The method of formulation of such a sample is as follows:

STEP	TEMP	
1	80°	PHASE 1 Into a main SS compounding tank, meter Dionized Water. Add Aloe Vera. Turn on mixer. Begin heating to 80°C.
2	70°	When the temperature of the main tank is at 70°C sprinkle slowly Methylparaben. Mix well until completely dissolved. Recirculate batch to insure that no solid is left at the bottom.
3	RT	PHASE 2 Into a suitably size container, add Phase 2 ingredients. Mix well into a uniform slurry.
4	80°	When the temperature of the main tank is at 80°C add siowly Phase 2 slurry. Note: Be sure to mix Phase 2 slurry well before adding to Phase 1. Keltrol T has a tendency to settle at the bottom.
5	80°	PHASE 3 Into a separate ss auxiliary tank, add Phase 3 ingredient except Propylparaben. Begin heating to 80°CX. Turn on mixer when most of the waxes are melted.
6	70°	When temperature of Phase 3 is at 70°C sprinkle in slowly Propylparaben. Be sure to evacuate valve to insure that no solids are entrapped.
7	80°	When the temperature of Phase 3 is at 80°C and ready to be added to Phase 1, add Vitamin E Acetate.
8	80°	EMULSIFICATION When both Phase 1 and Phase 3 reach 80°C, add Phase 3 to main batch. Mix well for 15 minutes. Recirculate batch on and off.
9		Begin cooling.
10	38°	PHASE 4 When temperature of the main batch is at 38°C add Phase 4 ingredients. Mix well.
11	RT	PHASE 5 Into a suitably sized container add Phase 5 ingredients. Mix well until completely dissolved.
12	38°	When the temperature of the main batch is 38° add the solution of Phase 5. Mix well.
13	30°	Discontinue mixing and cooling at 30°C

SAMPLE SCRUBBING OR EXFOLIATING COMPOSITION

[0052] Such a composition would include the following ingredients:

MATERIAL	%
D.I. water	75.28
Methylparaben	0.25
Propylene glycol	2.00
Glycerin 96%	5.00
Steareth 2 (Lipocol S-2)	1.00
Steareth-20 (Lipocol S-20)	2.00
Cetyl Alcohol (Lipocol C)	1.50
Stearyl alcohol (Lipocol S)	1.50
Safflower oil	4.00
Isopropyl myristate (Liponate IPM)	5.00
DC 200 Fluid 11 cst.	1.00
Propylparaben	0.07
Germail II	0.20
Fragrance	0.20

[0053] Additionally, there is Dead Sea salts added in a range of about 1:10, namely ten parts salt to one part of lotion. As needed, other scrubbing agents such as pumice or silica can be added.

[0054] Although the invention has been described with regard to a cosmetic product related to soothing the effects of psoriasis, there are other formulations of the product which essentially includes mineral salts, preferably Dead Sea salt which can be used for different purposes. As such, a mouthwash formulation can be provided. The product will assist in combatting bacteria and gum irritation and inflammation. The product can moisturize and assist in nourishment of the skin.

[0055] The Dead Sea salts can be formulated with an amount of water and a suitable fragrance for these purposes. Likewise, as a shampoo product, the formulation can be prepared for use on human hair as well as animal hair. An essential ingredient of such a product is also mineral salts, such as Dead Sea mineral salts, and the percentage of Dead Sea salt can vary according to the purpose and formulation.

CONDITIONING SHAMPOO COMPOSITION	
TSP	%
Masada salts	2.00
DI water	57.50
Cocomido propyl betaine/(Norfox)	7.00
SLES-2/(Norfox) (Sodium laureth sulfate)	20.00
SLES-60/(Norfox)	5.00
Cocomido propyl amine oxide/ Schercamox CAA-G (Scher)	2.50
Crodafos SG (Croda) (PTG-5 Ceteth-10 phosphate)	1.00
Oleamide DEA/Schercomid ODA (Scher)	2.50
Tritisol/sol wheat protein (Croda) (Hydrolyzed wheat protein)	0.70
Aloe 10:1 (D-D Chem)	0.20
Neutral henna	0.10
Algae extract	0.10
Comfrey leaf	0.10
Goldenscal root	0.10
Elderflower	0.10
Nettle	0.10
Rosemary	0.10
Red clover	0.10
panthenol (Roche)	0.10
DMDM hydantoin	0.40

(continued)

CONDITIONING SHAMPOO COMPOSITION	
TSP	%
Fragrance (Custom Essence) CE-22601 coal tar mask	0.30
TOTAL	100.00

[0056] The procedure for mixing the formulation is as follows:

1. Add ingredients of phase A individually with mixing. Mix until homogeneous.
 2. When phase A is homogeneous, add individually ingredients of phase B.
- Note: If scale up testing indicates that the fragrance is clouding the product, premix 1:1 with Triton X-100.
3. Adjust pH to around 6.

[0057] Further, the different compositions and formulations can also be used, for instance, in the soothing of the skin when subjected to acne.

[0058] The composition is applied to the skin to stop itching. When applied to animals particularly it is useful against skin disorders, and joint or arthritic problems. It is particularly useful on dogs and horses.

[0059] Other forms of the invention includes those when applied in liquid form. It can also be applied as saturated wipe or as a compress. Moreover, it is applicable as a scrubbing or exfoliating composition. Additionally, it can be formulated as an inhalant product where another component is eucalyptus.

[0060] A different composition of the formula can be used for inhaling to ease nasal or sinus congestion and to soothe coughing irritations due to bronchitis or similar conditions.

[0061] The invention has been described with regard to several examples which are for illustrative purposes only.

Claims

1. A skin composition comprising a mineral salt emulsified and dispersed in water, a mineral salt, preferably being a composition of Dead Sea salt, having as active ingredients Magnesium Chloride, Potassium Chloride, Sodium Chloride and water; of crystallization and a lipid soluble compound and oils, the composition having components present in sufficient quantities to effectively protect the skin tissue against a condition of itchiness on living tissue.
2. A composition as claimed in claim 1, wherein the itchiness condition is caused by psoriasis.
3. A composition as claimed in claim 1, further including aloe vera.
4. A composition as claimed in claim 1, including propylene glycol.
5. A composition as claimed in claim 1, including an hydrogenated vegetable oil.
6. A composition as claimed in claim 1, wherein the lipoids include an effective amount of liponate GC, lipo GNS470, lipomulse .65, lipocool C and lipowax D.
7. A composition as claimed in claim 1, including effective amounts of propylene, glycol, aloe vera juice, sunflower oil, kessco OP, liponate, other hydrogenated vegetable oils, lipo GMS, stearic acid, lipomulse, and eugenol.
8. A composition as claimed in claim 1, wherein the mineral salts include at least about 5% Dead Sea salts.
9. A composition as claimed in claim 1, including suitable sunscreen.
10. A composition comprising a mineral salt emulsified and dispersed in water, a mineral salt, preferably being a composition of Dead Sea salt, having as active ingredients Magnesium Chloride, Potassium Chloride, Sodium Chloride and water of crystallization and a lipid soluble compound and oils, the composition having components present in sufficient quantities to effectively protect the skin tissue within the mouth against an adverse condition and a suitable carrier for permitting formulation as a product for use in the mouth, preferably a toothpaste, cream or mouthwash.

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11. A composition as claimed in claim 1, including a solvent component, a preservative component, thickener component, hydrophilic component, lipid soluble component and a pigment.
- 5 12. A composition as claimed in claim 1, including about 5% Dead Sea salt, 70% dionized water, 3% propylene glycol and a lipophilic product.
13. A skin composition comprising a mineral salt emulsified and dispersed in water, a mineral salt, preferably being a composition of Dead Sea salt, having as active ingredients Magnesium Chloride, Potassium Chloride, Sodium Chloride and water of crystallization and a lipid soluble compound and oils, the composition having components
10 present in sufficient quantities to effectively protect the skin tissue against a condition against psoriasis.
14. A composition comprising mineral salts, preferably Dead Sea mineral salts, for selectively exfoliating or scrubbing living tissue such as skin, the composition including a water soluble base, the water soluble base being a non-oily element for retaining the mineral salt elements, preferably in granular form, such that the granules are effectively
15 exfoliating or scrubbing agents on tissue.
15. A composition as claimed in claim 14, wherein a sufficiently minimum amount of water is used in the formulation of the composition such that the mineral salt granules are inhibited from break down in the formulation and prior to use as an exfoliating or scrubbing agent.
20
16. A composition as claimed in claim 14, wherein the scrubbing agent includes silica or pumice selectively to replace in part, or in conjunction with, the mineral salts.
17. A composition as claimed in claim 14 including safflower oil, lipocol glycerin and propylene glycol.
25
18. A composition comprising at least one of silica or pumice for selectively exfoliating or scrubbing living tissue such as skin, the composition including a water soluble base, the water soluble base being a non-oily element for retaining the silica or pumice or other scrubbing agents, preferably in a form such as to effectively act as exfoliating or scrubbing agent on tissue.
30
19. A composition as claimed in claim 18 for reducing the effect of itching, flaking and redness of living tissue.
20. A composition comprising mineral salts, preferably Dead Sea mineral salts, for selectively cleaning the hair, the composition including a water soluble base and cocomidopropyl betaine.
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/18012

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 33/00, 33/06, 33/14

US CL : 424/663,665,677,678,679,680,681,682,722,723;514/853

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/663,665,677,678,679,680,681,682,722,723;514/853

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Remington's Pharmaceutical Sciences (17th Ed. 1985)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P — Y,P	EP 0 937 453 A2 (SCHWARTZ) 25 August 1999 (25.08.1999), pg. 3, lines 26-39, pg. 8, lines 23,24.	1,5-10, 14-20, 24-26
Y	GENNARO, A. R. Remington's Pharmaceutical Sciences (17th Edition) Easton, Pennsylvania: Mack Publishing Company. 1985, pages 1293, 1500, 1662-1677.	2-4, 11-13, 21-23, 27-35 2-4, 11-13, 21-23, 27-35



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

11 August 2000 (11.08.2000)

Date of mailing of the international search report

28 AUG 2000

Name and mailing address of the ISA/US

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/18012

Continuation of B. **FIELDS SEARCHED** Item 3: STN/CAS, WEST

search terms: Dead Sea salts, nasal, magnesium, potassium, sodium, calcium, chloride, bromide